

1. (currently amended): A process for the preparation of luminescent polymeric fibres, wherein ~~characterised in that~~ the fibres are treated with a composition comprising

(a) one or more luminescent lanthanide chelates containing three or four organic anionic ligands having at least one UV absorbing group and

(b) one or more solvents.

2. (currently amended): A process according to claim 1, wherein ~~characterized in that~~ component (a) is a compound of formula I



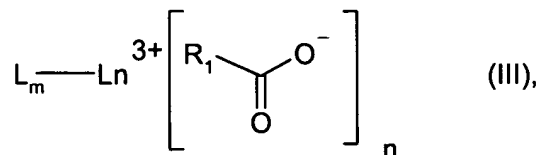
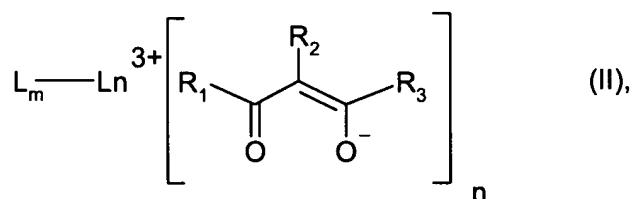
wherein Ln represents a lanthanide,

Ch⁻ is a negatively charged ligand containing at least one UV absorbing double bond,

n denotes 3 or 4, m denotes a number from 0 to 4, wherein

when in case n is 3, m denotes a number from 0 to 4 and L is a neutral monodentate or polydentate nitrogen-, oxygen- or sulfur-containing ligand or, when in case n is 4, m denotes 1 and L is a single-charged cation.

3. (currently amended): A process according to claim 1, wherein ~~characterized in that~~ component (a) is a compound of formula I, II, III or IV



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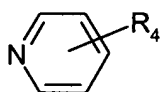
Ch⁻ is a negatively charged ligand containing at least one UV absorbing double bond,

R₂, is hydrogen or C₁-C₆alkyl, and

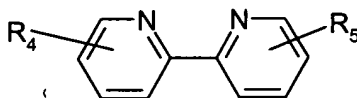
R₁ and R₃ are each independently of the other hydrogen, C₁-C₆alkyl, CF₃, C₅-C₂₄aryl or C₄-C₂₄heteroaryl.

4. (currently amended): A process according to claim 2 or 3, ~~wherein characterized in that~~ component (a) is a compound of formula I, II, III or IV wherein n denotes 3 and L is a nitrogen-containing ligand.

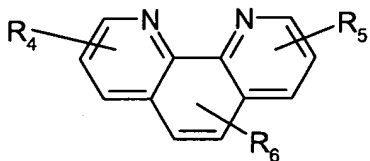
5. (currently amended): A process according to claim 2 or 3, ~~wherein characterized in that~~ component (a) is a compound of formula I, II, III or IV wherein L is a compound of formulae V to XII



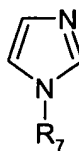
(V),



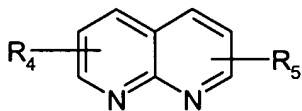
(VI),



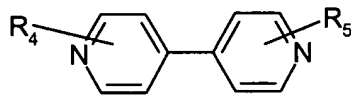
(VII),



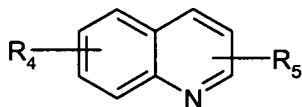
(VIII),



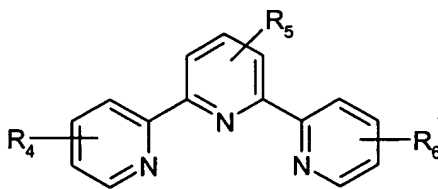
(IX),



(X),



(XI),



(XII),

or a cation of the formula H-N⁺(R₇)₃,

wherein R₄, R₅ and R₆ are each independently of the other hydrogen, halogen, C₁-C₆alkyl, C₅-C₂₄aryl, C₆-C₂₄aralkyl, C₁-C₆alkoxy, amino, dialkylamino or a cyclic amino group and R₇ is hydrogen, C₁-C₆alkyl, C₅-C₂₄aryl, C₆-C₂₄aralkyl or vinyl.

6. (currently amended): A process according to claim 5, ~~wherein characterized in that~~ component (a) is a compound of formula II wherein L is a compound of formula V, VI, VII, VIII, IX, X, XI or XII

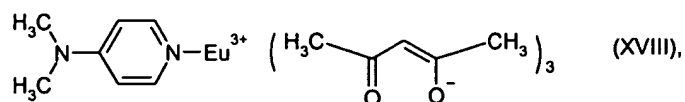
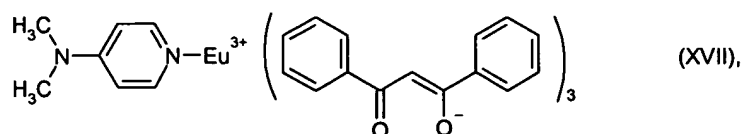
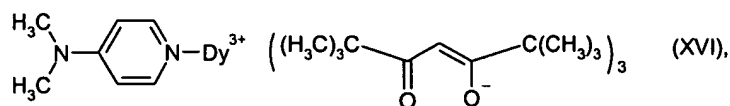
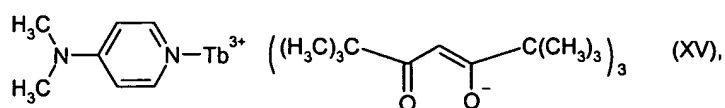
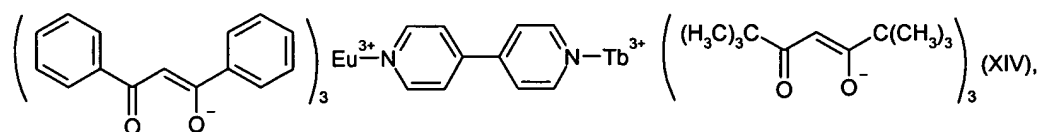
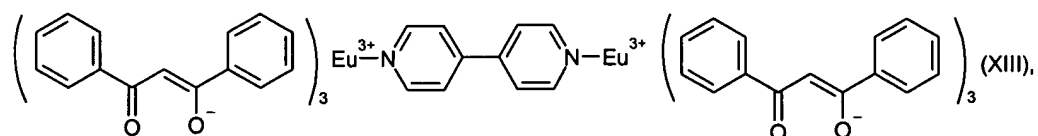
wherein R_4 , R_5 and R_6 are hydrogen, methyl, amino, pyrrolidino or dimethylamino or L is a cation of the formula $H-N^+(R_7)_3$, wherein R_7 is C_1 - C_6 alkyl.

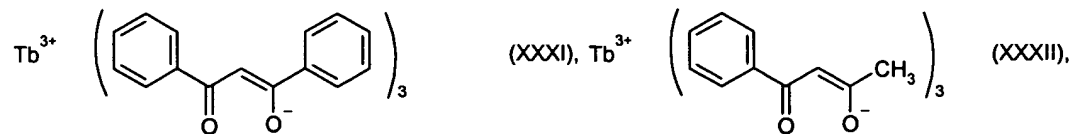
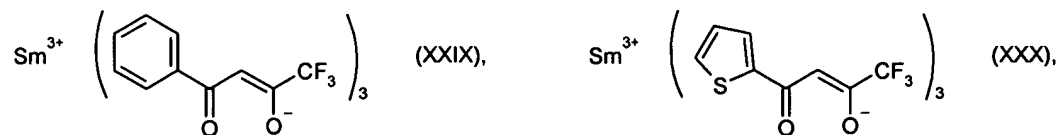
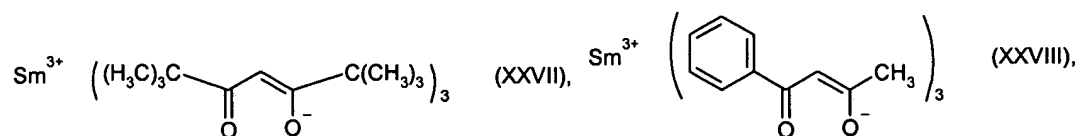
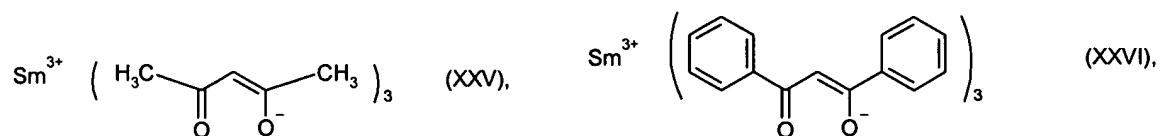
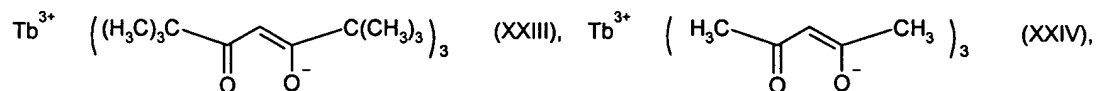
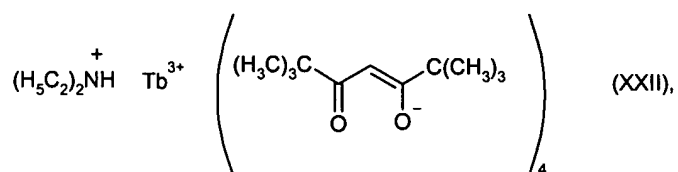
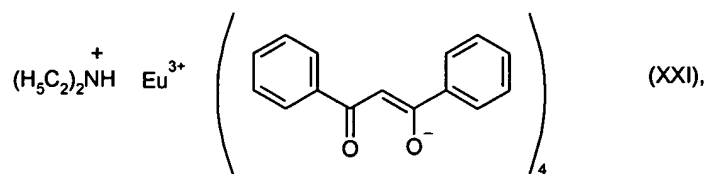
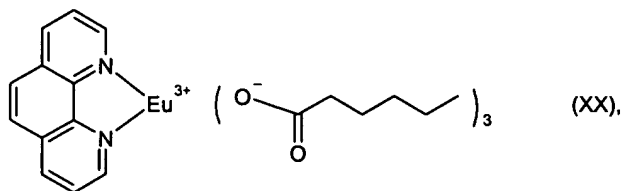
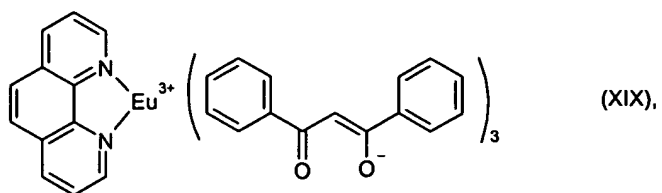
7. (currently amended): A process according to claim 2 or 3, ~~wherein characterized in that~~ component (a) is a compound of formula I, II, III or IV wherein Ln is Eu, Tb, Dy, Sm or Nd.

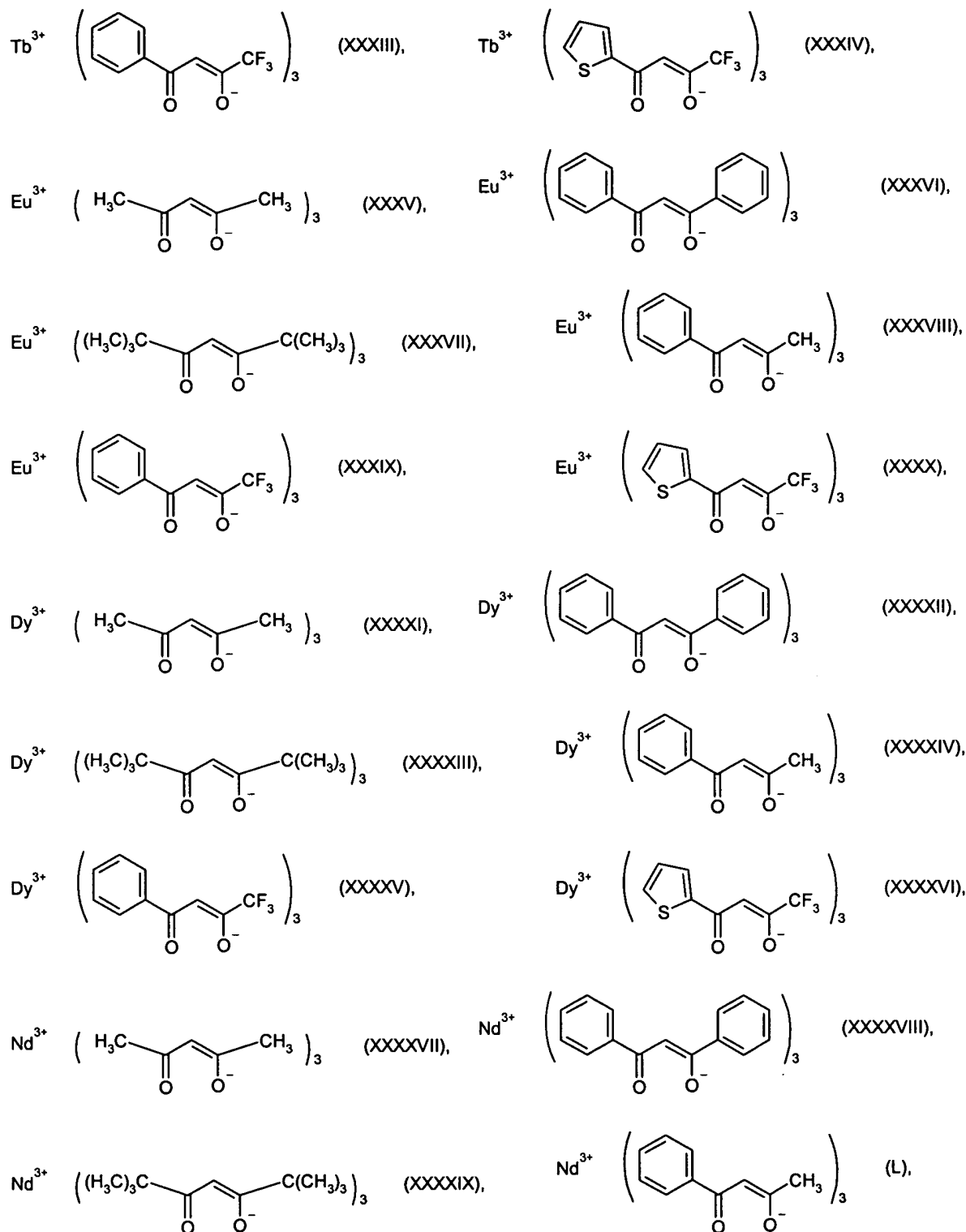
8. (currently amended): A process according to claim 3, ~~wherein characterized in that~~ component (a) is a compound of formula II or III wherein R_1 and R_3 are methyl, t-butyl, n-pentyl or phenyl.

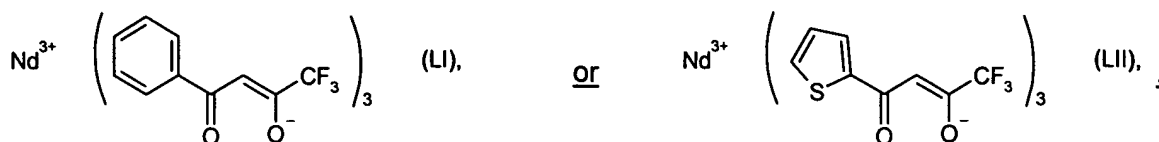
9. (currently amended): A process according to claim 3, ~~wherein characterized in that~~ component (a) is a compound of formula II wherein R_2 is hydrogen.

10. (currently amended): A process according to claim 3, ~~wherein characterized in that~~ component (a) is a compound of formula XIII to LII









11. (currently amended): A process according to claim 1, ~~wherein or 2 characterized in that~~ component (b) is water, one or more water-miscible organic solvents or a mixture of water and one or more water-miscible organic solvents.

12. (currently amended): A process according to claim 11, ~~wherein characterized in that~~ the water-miscible organic solvent is an aliphatic alcohol, etheralcohol, glycol, aliphatic ketone, carboxylic acid ester, carboxylic acid amide, aliphatic nitrile, aliphatic polyether or aliphatic sulfoxide.

13. (currently amended): A process according to claim 11, ~~wherein characterized in that~~ the water-miscible organic solvent is selected from the group consisting of ethanol, 2-butoxyethanol, ethylene glycol, propylene glycol, acetone, 2-butanone, ethyl acetate, tetrahydrofurane (THF), dimethylformamide (DMF), dimethylacetamide (DMA), N-methylpyrrolidone (NMP), acetonitrile, polyethyleneglycol dimethyl ether and dimethylsulfoxide (DMSO).

14. (currently amended): A process according to claim 1, ~~wherein characterized in that the~~ composition formulation contains 0.01 to 20.0 % by weight of component (a) and 80.0 to 99.99 % by weight of component (b), based on the total amount of components (a) + (b).

15. (currently amended): A process according to claim 1, ~~wherein characterized in that the~~ composition formulation contains additionally (c) one or more colorants.

16. (currently amended): A process for the preparation of luminescent plastics, ~~wherein characterized in that~~ the plastics material is extruded in the presence of 0.01 – 10.0 % by weight, based on the amount of polymeric material, of a compound of formula II or III according to claim 3.

17. (original): A luminescent textile fibre prepared by the process according to claim 1.

18. (original): A luminescent plastic prepared by the process according to claim 16.

19. (original): A process according to claim 1 wherein the polymeric fibres are paper fibres or synthetic fibres.

20. (currently amended): ~~The use of the process according to claim 1~~ A method for the preparation of anti-counterfeit documents, cards, cheques or banknotes which comprises incorporating therein a luminescent polymeric fibre prepared by the process according to claim 1.